

L2010450022/Winnebago  
General Hydraulics  
ILD 984767806

5E0301-AD101

High - 444  
9/20/92  
5859

# CERCLA Preliminary Assessment Report



Illinois Environmental  
Protection Agency  
P.O. Box 19276,  
Springfield, IL 62794-9276

EPA Region 5 Records Ctr.



326031

*Confidential Material May be Enclosed*

## Executive Summary

The General Hydraulics facility was placed on CERCLIS November 29, 1988 as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency (IEPA). The facility manufactured lawn and garden equipment from the early 1950's till its bankruptcy in 1984. In 1985, the bankruptcy court parceled the property for sale. One prospective buyer, Magnetic Data Carriers, was able to rescind a purchase agreement when abandon, leaking drums of waste and soil contamination were found on part of the site. During the drum removal, one of the on-site wells (Trenwyth Industries) revealed a concentration of tetrachloroethylene (PCE) at 1.8 ug/l (ppb). Later sampling of that well and another, on-site well (Hanson General Products) confirmed groundwater contamination of PCE at 1.4 and 1.3 ug/l respectively.

General Hydraulics was owned and operated by Mr. Glen Hanson. The company's business address was 301 Charles Avenue, South Beloit, IL, although Mr. Hanson leased the building at this address for his office. Mr. Hanson owned the property to the south of Charles Avenue where the manufacturing took place. The 8 acres of Hanson property was located in the southeast quarter of Section 6 Township 46 North, Range 2 East. The property was bound on the north by Charles Avenue, across which contained undeveloped property owned by Cliff Tricke; on the west by the C. M. St. Paul and P. Railroad; on the south by Elmwood Avenue and undeveloped property; and on the east by the Hayes Addition residents (8 single family residential dwelling units along Hayes Avenue).

Prior to operations at General Hydraulics, the Railroad company allowed foundry waste to be dumped in low areas. At that time, it seemed worthwhile to dump on the floodplain of the Rock River, so making the property dryer for other uses. The fill had presumably raised the property elevation several feet in areas closest to the railroad.

General Hydraulics made various equipment over their 30 or so years of business, including farm sprayers, mowers and snow blowers. The operation had three, one story buildings that served various functions. The metal building in the northeast corner of the property is now owned by Accra Plastics. This building was used by General Hydraulics for their fiberglass operation. Tanks and sprayers were built there. The metal building and property adjacent to Accra Plastics (on the northwest side) is currently owned by Trenwyth Industries. This building was used as the welding and fabrication shop. The third building, on the south end of the property, is now owned by North American Tool Corporation (same parcel Magnetic Data Carrier was to buy). This masonry building was used by General Hydraulics as their

machine shop.

Much of General Hydraulics wastes were generated at the machine shop in the form of cutting oils and solvents. In April of 1981, IEPA discovered that the facility was using a Wisconsin transport company to ship special wastes without manifests.

IEPA inspected the site on May 2, 1986, after Magnetic Data Carriers had reported the waste, left behind by General Hydraulics. Two dumping areas were discovered. One contained a reddish-brown granular material and the other had a mixture of materials (drums, pails, wooden crates, tires, trash, etc). The entire area was littered with trash and debris. It was estimated that 112-120 55 gallon drums and 25-50 5 gallon pails had been left on-site.

The bankruptcy court contracted Frinks Industrial Waste (FIW) to sample and remove the waste. Composite samples were obtained from the drums and analyzed for corrosivity, ignitability, total metals, and certain other characteristics. Nine drums were found to contain hazardous waste based on flash point. The drums were staged and disposed of by FIW. Several soil samples showed EP Toxic for lead, chromium and barium.

A stand pipe located near the machine shop (now North American Tool Corp.) was alleged to be used for disposal of wastes. The pipe went into a buried 55 gallon fiberglass drum. FIW sampled the drum contents and soil beneath the drum and found no volatiles. The pipe/drum has since been sealed with concrete.

Four monitor wells were installed on the property in early 1987 which showed groundwater movement toward the west-southwest at a very slight gradient. Two of the wells tested positive for PCE contamination at 5.8 ug/l (ppb) in G101 and 4.8 ug/l in G104.

The monitor well logs show subsoils as coarse grained, permeable sands and gravels. Nearby well logs show variable thicknesses of alluvial deposits to 73 feet overlying limestone and sandstone.

The 15 feet deep, on-site Trenwyth well, supplies 50 employees with drinking water, however the water is now run through a charcoal filter system. South Beloit's well is operated by Wisconsin Power and Light, cased to 230.5 feet and has a total depth of 1185 feet. The well is located less than a quarter of a mile northeast of the site and supplies water to the 4088 residents of South Beloit. Also, this well is connected with the Beloit, Wisconsin public water supply. Other public supply wells within three miles of the site include seven Beloit, Wisconsin wells (3 sand and gravel and

4 shallow bedrock serving 40,000 residents) north of the site, 3 Goldie Floberg Center wells (2 sand and gravel wells, 85 and 95 feet deep, and one shallow bedrock well 760 feet deep which serve 55 occupants, ILD 981956519) 2.4 miles south of the site, and one of Rockton's wells, #5 (120 feet deep sand and gravel well serving 2400 people) 2.4 miles south-southwest of the site. Another fourteen public, non-municipal wells are used in South Beloit.

The Rock River is located 450 feet west of the site and is used extensively for recreation. Wetland areas occur along the rivers edge throughout much of its course.

The previously documented disposal practices at the site, coupled with the potential vulnerability of local groundwater supplies and the significant number of public and private wells in the area, are all factors in the "high priority" assessment for this site. General Hydraulics should continue in the CERCLA process with a Screening Site Inspection performed in the near future.

Recommendations include soil sampling at depths sufficient to detect chlorinated solvents should they be present. The key areas would be the two dump areas and near the stand pipe. Also, groundwater samples from nearby off-site sources may help show the extent of contamination.

GENERAL HYDRAULICS

SITE LOCATION



L 201 045 00 22



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT**

**I. IDENTIFICATION**

01 STATE	02 SITE NUMBER
IL	984767806

**II. SITE NAME AND LOCATION**

01 SITE NAME (Legal, common, or descriptive name of site) General Hydraulics		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 301 Charles Avenue			
03 CITY South Beloit	04 STATE IL	05 ZIP CODE 61080	06 COUNTY Winnebago	07 COUNTY CODE 201	08 CONG DIST 16
09 COORDINATES LATITUDE 42 29 00.0 LONGITUDE 089 02 30.0		South Beloit, IL N4222.5 - W8900/7.5 12A			
10 DIRECTIONS TO SITE (Starting from nearest public road) See map					

**III. RESPONSIBLE PARTIES** see Executive Summary

01 OWNER (If known) 1. North American Tool Corp 2. Timothy Industries 3. Accra Plastics		02 STREET (Business, mailing, residential) 1. 215 Elmwood Avenue 2. 308 Charles Avenue 3. 238 Charles Avenue			
03 CITY South Beloit	04 STATE IL	05 ZIP CODE 61080	06 TELEPHONE NUMBER 1. 389-2300 2. 389-3003 3. 389-5100		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ( )		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					

**14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)**

☐ A. RCRA 3001 DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR    ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR    ☐ C. NONE

**IV. CHARACTERIZATION OF POTENTIAL HAZARD**

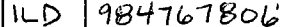
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 5/1/86 MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR: early 1950's    ENDING YEAR: 1983 <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED chlorinated solvents					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION groundwater (population, environment)					

**V. PRIORITY ASSESSMENT**

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)  
☒ A. HIGH (Inspection required promptly)    ☐ B. MEDIUM (Inspection required)    ☐ C. LOW (Inspect on time available basis)    ☐ D. NONE (No further action needed, complete current disposition form)

**VI. INFORMATION AVAILABLE FROM**

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER ( )	
04 PERSON RESPONSIBLE FOR ASSESSMENT Timothy J. Murphy	05 AGENCY IEPA	06 ORGANIZATION RPMS	07 TELEPHONE NUMBER (217) 785-5737	08 DATE 5/15/90 MONTH DAY YEAR



I HIGHLY VOLATILE  
J EXPLOSIVE  
K REACTIVE  
L INCOMPATIBLE  
M NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
ILD 984767806

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

02 ☒ OBSERVED (DATE: \_\_\_\_\_)

POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

Two of four groundwater monitor wells have shown concentrations of tetrachloroethylene at 5.8 ug/l (ppb) in G101 and 4.8 ug/l in G104.

Ref #7

01 ☒ B. SURFACE WATER CONTAMINATION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

Site is located in floodplain 450' east of the Rock River

Ref #8

01 ☐ C. CONTAMINATION OF AIR

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL

02 ☒ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: 8

(Acres)

04 NARRATIVE DESCRIPTION

EP toxic metals detected

Ref #4

01 ☒ G. DRINKING WATER CONTAMINATION

02 ☒ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: > 44,000

04 NARRATIVE DESCRIPTION

Trenwyth Industries well on site (15' deep) serves 50 employees and has been shown to be contaminated with tetrachloroethylene at 1.8 ug/l (ppb)  
Found at 1.4 ug/l 12/21/87. Nearby PWS serves Beloit, W.S. and So. Beloit

Ref. #6, #11

01 ☐ H. WORKER EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

See G. above

01 ☐ I. POPULATION EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION





POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION.

01 STATE 02 SITE NUMBER

1LD 984767806

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

2 dump areas showed stressed vegetation

01 ☐ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

none documented or observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

none documented or observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills runoff standing liquids leaking drums)

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☒ OBSERVED (DATE: 5/1/86)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

leaking drums left on site

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

none documented or observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

none documented or observed

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: 6/11/86)

☐ POTENTIAL

☒ ALLEGED

Near the machine shop was a pipe sticking out of the ground used to dispose of acids  
2 dumping areas were observed 6/2/86

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 244,000

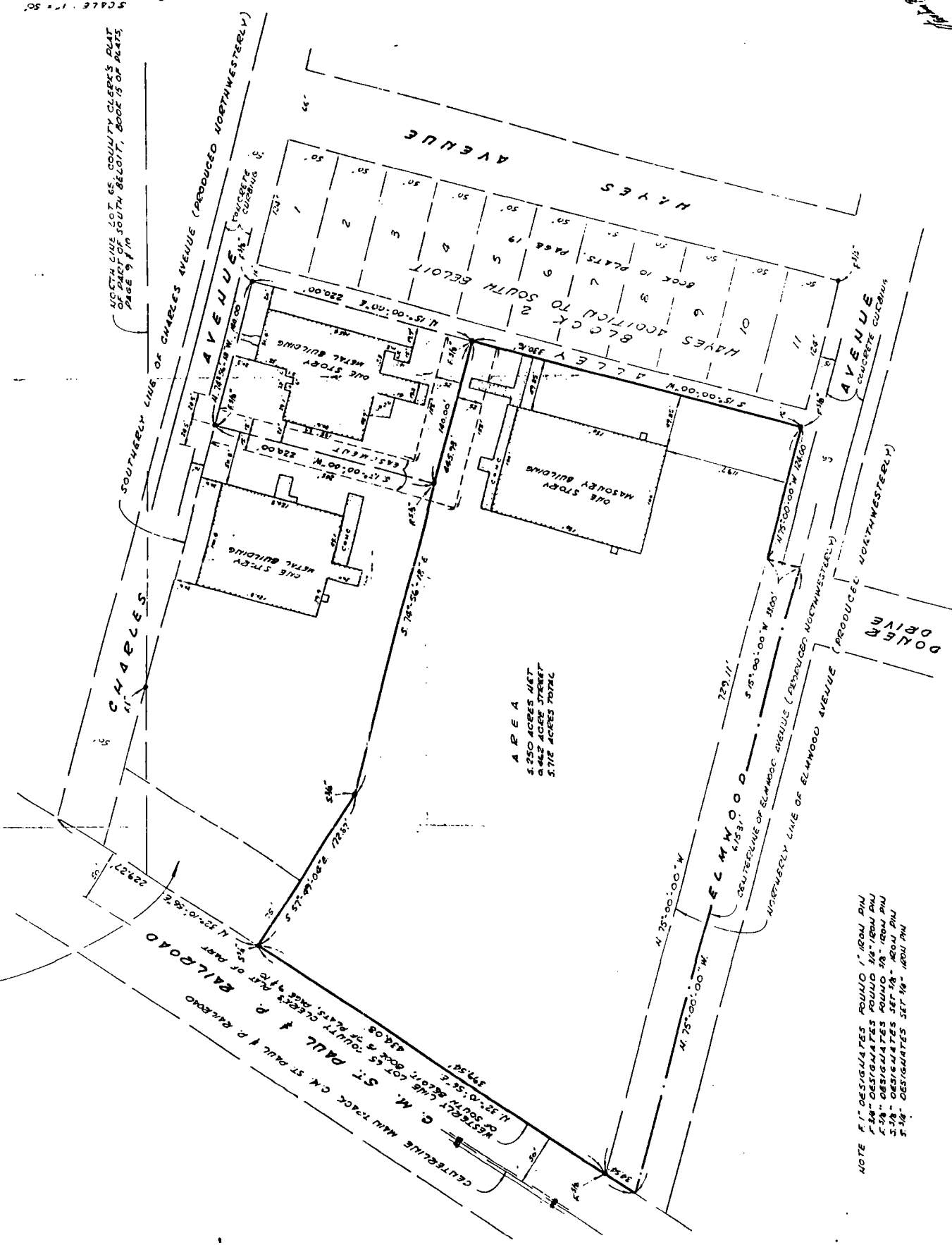
IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

EPA Division of Land Pollution Control file L2010454022  
Phone call with Dave Cummings of Wisconsin Power and Light  
Phone call with Don Joyce of Accra Plastics  
Site Reconnaissance 4/26/90

SCALE 1" = 50'

PREMISES CONVEYED BY MARY E. HAYES TO MARY A. BLANDHOLT, MARY J. CUMMINGS AND GEORGE J. MANN, AS TRUSTEES OF THE JOINTLY OWNED CHICAGO, MILWAUKEE ST. PAUL AND ELGIN RAILROAD COMPANY BY WARRANTY DEED DATED MAY 10, 1904, RECORDED IN BOOK 15, PAGE 179 IN THE RECORDS OF THE CHIEF OF RECORDS, CHICAGO, ILL.



AREA  
1.250 ACRES NET  
0.462 ACRES STREET  
5.712 ACRES TOTAL

NOTE: F. 1" DESIGNATES ROUNDO 1" IRON PIN  
F. 2" DESIGNATES ROUNDO 2" IRON PIN  
F. 3" DESIGNATES ROUNDO 3" IRON PIN  
F. 4" DESIGNATES SET 1/4" IRON PIN  
F. 5" DESIGNATES SET 1/2" IRON PIN

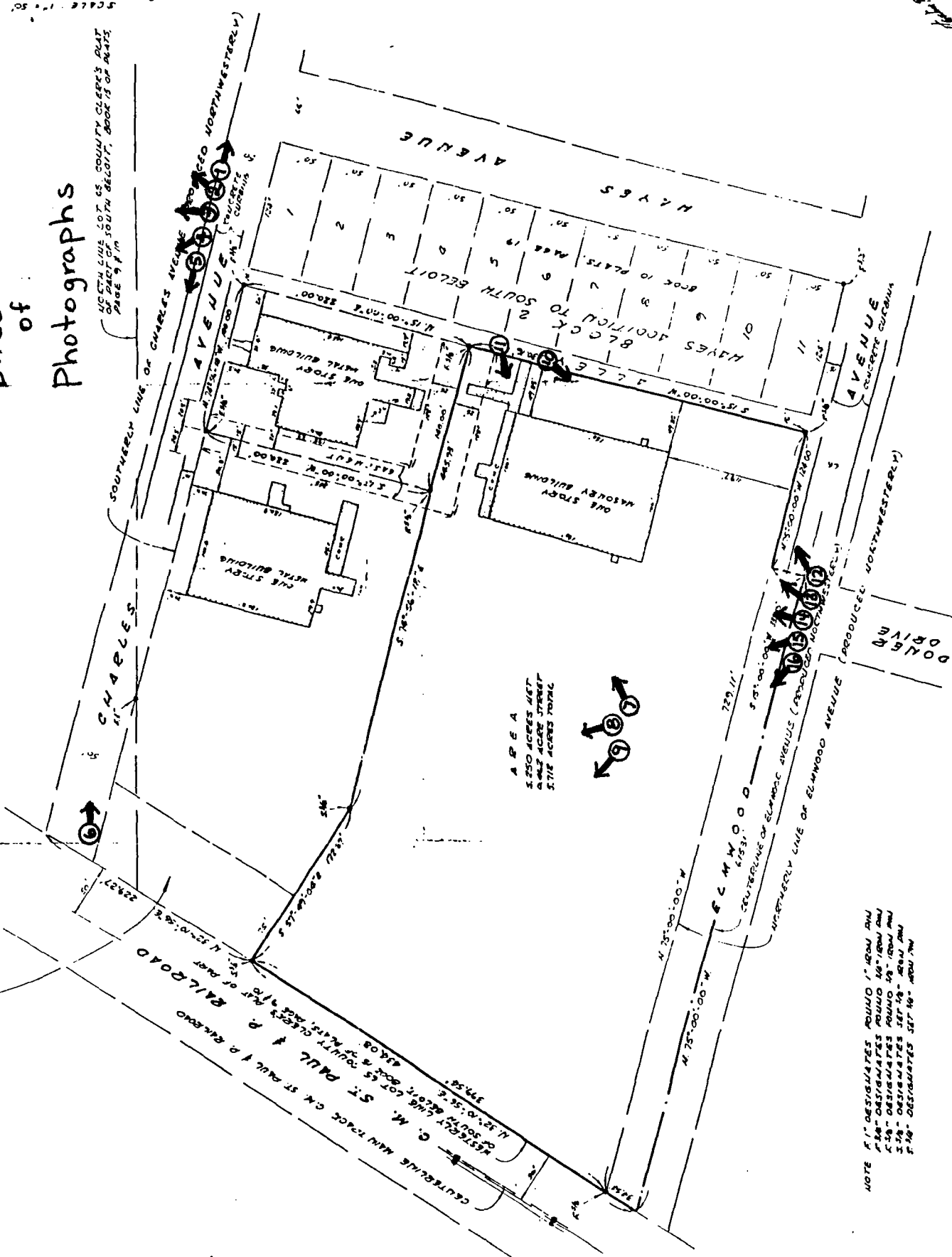
105 2 1 27935

NCETH LINE LOT 65. COUNTY CLERK'S DEPT.  
OF DEPT OF SOUTH DELOIT, BOOK 15 OF ACATS.  
PAGE 9812

[illegible]

A P E A  
5.250 ACRES NET  
0.062 ACRES STREET  
5.718 ACRES TOTAL

NOTE F.1' DESIGNATES ROUND 1" FROM DN  
F.30" DESIGNATES ROUND 30" FROM DN  
L.10" DESIGNATES ROUND 10" FROM DN  
S.10" DESIGNATES SET 10" FROM DN  
F.10" DESIGNATES SET 10" FROM DN





DATE: 4-26-90

TIME: 8:00 Am

Photograph by:

Timothy J. Murphy

Location: 301 Charles  
Avenue, South Beloit  
Winnebago Co., IL

Comments: Picture taken toward  
East to West of  
area North of General  
Hydraulics

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

Photograph by:

Location: \_\_\_\_\_

Comments: Picture taken toward

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



3

4

5



DATE: 4-26-90

TIME: 8:00 Am

Photograph by:

Timothy J. Murphy

Location: 301 Charles  
Avenue, South Beloit  
Winnebago Co., IL

Comments: Picture taken toward  
building leased to  
Glen Hanson as office  
space for General  
Hydraulics



DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

Photograph by: \_\_\_\_\_

Location: \_\_\_\_\_

Comments: Picture taken toward \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

E



1

NE



2

7



DATE: 4-26-90

TIME: 8:05 AM

Photograph by:

Timothy J. Murphy

Location: Former Site of  
General Hydraulics in  
South Beloit

Comments: Picture taken toward  
the east of Charles  
Avenue, on the right  
is Accura Plastics  
and Trenwyth Ind-  
ustries



6

DATE: 4-26-90

TIME: 8:15 AM

Photograph by:

Timothy J. Murphy

Location: Former Site  
of General Hydraulics

Comments: Picture taken toward  
the Northeast



7



DATE: 4-26-90

TIME: 8:15 AM

Photograph by:

Timothy J. Murphy

Location: Former Site of  
General Hydraulics

Comments: Picture taken toward  
the northwest



8

DATE: 4-26-90

TIME: 8:15 AM

Photograph by:

Timothy J. Murphy

Location: Former Site  
of General Hydraulics

Comments: Picture taken toward  
West-Northwest



9



DATE: 4-26-90

TIME: 8:25 Am

Photograph by:

Timothy J. Murphy

Location: Former Site of  
General Hydraulics in  
South Beloit, IL

Comments: Picture taken toward  
South-Southwest of  
the east side of  
North American Tool  
Corporation



10

DATE: 4-26-90

TIME: 8:25 AM

Photograph by:

Timothy J. Murphy

Location: Former Site  
of General Hydraulics

Comments: Picture taken toward  
the southwest of North  
American Tool Corporation's  
drum storage area



11



DATE: 4-26-90

TIME: 8:30 Am

Photograph by:

Timothy J. Murphy

Location: Former Site of  
General Hydraulics IN  
South Beloit, IL

Comments: Picture taken toward  
from northeast to west-  
northwest of North  
American Tool Corporation

DATE: 4-26-90

TIME: 8:30 Am

Photograph by:

Timothy J. Murphy

Location: Former Site  
of General Hydraulics

Comments: Picture taken toward

Z

NW

W-NW



H1

51

91



DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

Photograph by: \_\_\_\_\_

Location: \_\_\_\_\_

Comments: Picture taken toward

DATE: 4-26-90

TIME: 8:30 AM

Photograph by:

Timothy J. Murphy

Location: Former Site  
of General Hydraulics

Comments: Picture taken toward



NE

12

13

**SUPPORTING**

**DOCUMENTS**

## SUPPORTING DOCUMENTATION

<u>Document</u>	<u>Reference Number</u>
D.L.P.C. Complaint 4/29/86	1
IEPA Memorandum 5/9/86	2
IEPA Memorandum 6/11/86	3
IEPA Memorandum 7/8/86 with Drum Analysis	4
M. Rapps Associates, Inc. Letter 9/30/87	5
M. Rapps Associates, Inc. Letter 10/30/87 with Trenwyth Well analysis	6
M. Rapps Associates, Inc. Letter 1/19/88 with Both On-site Well Analysis	7
County Clerk's Plat Map	8
IEPA Telephone Conversation Form with Don Joyce of Accra Plastics	9
ISGS Well Logs of T.46N, R.2E, Sec. 5, 6 & 7	10
IEPA Telephone Conversation Form with Dave Cummings of Wisconsin Power and Light	11

(4)

## REFERENCE NUMBER

2010455012

Wannetago County

South Beloit

1 Magnetic Data Carriers

C-86-64R

Date Received 4/29/86 By P. Luedtke By Phone In Person By MailComplainant Maurice Dawson, John Hess RespondentAddress 315 South Church Rd 61101 Address SAMETelephone 815/963-0808 TelephoneDirections To Source 240 Elmwood, South Beloit, Ill. 61080

Complaint Details Complainant recently acquired property. On the property 110 g paint, 110 g phosphoric acid, 2-3 10g glass of hydrochloric acid and several drums of what is thought to be water and/or xylene, was found. Company is trying to get the old land owner to remove the materials (some is probably useable). One drum of the paint thinner is leaking very slowly. It will be repacked w/in 1 or 2 days by Trinks. They also plan on getting wastes analyzed.

## INVESTIGATION FINDINGS

Date 4-30-86 Time 11:30 AM to 12:30 PM By JACK HOLZERInterviewed MURRAY DAWSON Weather CLOUDY 50°F Photos NO

Violations Observed AN ESTIMATE OF ABOUT 125 TO 130 DRUMS OF VARIOUS HAZARDOUS MATERIALS IN DRUMS THAT HAVE BEEN SITTING OUTSIDE IN THE STORAGE YARD FOR THE PAST 8 TO 9 MONTHS. ABOUT 8 DRUMS OF UNKNOWN MATERIALS AND ABOUT 30 DRUMS IN A SHED AND

Respondent's Remarks SOME OF THE DRUMS ARE LEAKING AND IS SEEPING INTO A DRAINAGE DITCH. FWM WILL START TOMORROW TO COLLECT THE DRUMS AND WILL PLACE LEAKERS IN OVER PACKS AND ALL DRUMS WILL BE STORED INSIDE BUILDING UNTIL MATERIAL CAN BE DISPOSED OF. THE SOIL WHERE THE LEAK HAS RUN WILL BE EXCAVATED AND HAULED AWAY.

\*\*\*\*\*

## FOLLOW-UP ACTION

Refer To \_\_\_\_\_

File Opened Yes No

RECEIVED

APR 30 1986

IEPA-DLPC



RECEIVED

DATE: May 9, 1986  
TO: DIVISION FILE  
FROM: Kerry Keller - Region 1 *K*  
SUBJECT: 2010455012 - Winnebago County  
South Beloit/Magnetic Data Carriers

MAY 13 1986

IEPA-DLPC

On May 2, 1986 an inspection of the former Hansen Manufacturing site was conducted by Robert Wengrow and the author between 10:30 a.m. - 12:10 p.m. The facility went bankrupt and was purchased by another company in a bankruptcy auction. The new company discovered a number of drums on the property which were left behind by the previous owner. Also, two dumping areas were discovered. One contains a reddish-brown granular material and the other had a mixture of materials (drums, pails, wooden crates, tires, trash, etc.). The whole area is littered with trash and debris.

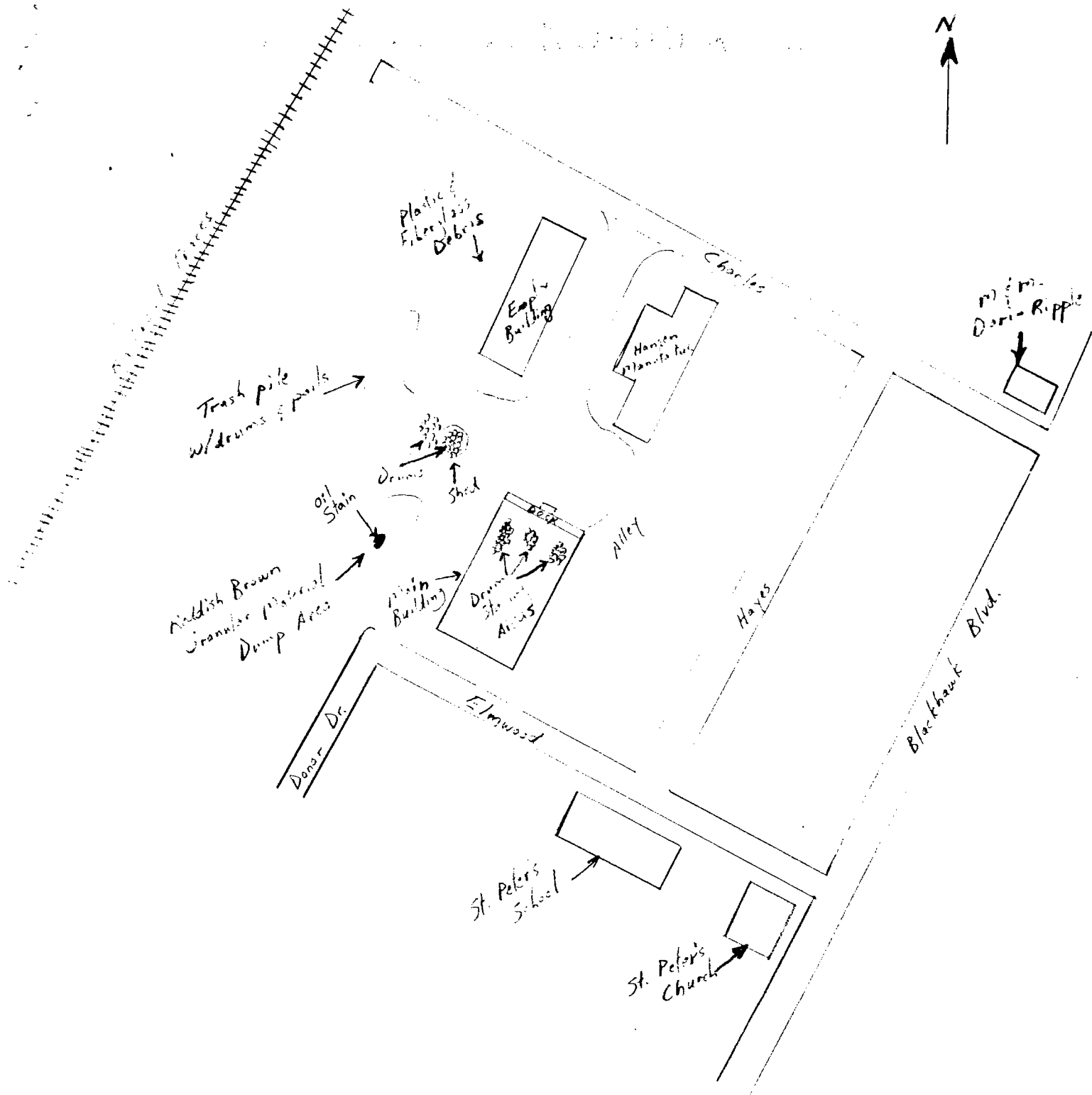
On the day of the inspection it was learned that Frinks Industrial Waste had been contracted to organize, stage and sample the drums to determine if the material is hazardous. At the time of the inspection most of the drums had been staged in the main building. It was estimated that there are 112-120 55 gallon drums and 25-50 5 gallon pails onsite.

A tour was made of the site and pictures were taken. Two samples were taken of the reddish-brown granular material dump area. One was a composite of 6-7 points around the perimeter and a point in the center. The second sample was from an oil stained area within the reddish-brown granular material area (see map). The samples were taken between 11:45-11:50 a.m. and were sealed at 11:55 a.m.

Robert Wengrow and the author left the site at 12:10 p.m.

KK/bp

cc: Rockford Office  
Pat Luedtke/Jack Holzer  
Steven Strauss



2010455012 - WINNEBAGO COUNTY  
SOUTH BELOIT / MAGNETIC DATA CARRIERS



DATE: June 11, 1986

TO: Division File

FROM: Patricia Luedtke *PL*

SUBJECT: 2010455012 - Winnebago County  
South Beloit/Magnetic Data Carrier  
Field Operations Section

A meeting was held June 6, 1986 at the request of Gene Fox, of Fehr-Graham & Associates and Murray Dawson, of Magnetic Data Carriers. Persons listed on the attached page were present. Dawson informed the EPA of a few discrepancies on the May 1, 1986 Citizen Complaint Investigation Report. The corrections were noted on the Remarks page of the report. A discussion of activities at the Magnetic Data Carrier proposed site ensued.

According to Dawson, Frinks Industrial Waste was employed by the bankruptcy court to sample wastes and other areas which may be requested to be sampled by IEPA. Results from Frinks Industrial Waste's sampling investigation will be furnished to Joe Olson, the bankruptcy lawyer, early next week. Ten of the drums apparently turned out to contain hazardous waste. All drums are now consolidated in DOT-approved containers in the northwest corner of the main building. Should the hazardous waste drums be stored there close to 90 days, the hazardous drums will be moved back to the round shed so that only one area will need to go through closure. One "corner" of this round building showed evidence of leaking waste. No sample of this was taken for analyses by IEPA or Frinks even though IEPA had requested it. According to Fox and Dawson, Olson claims he never received a copy of the CIL even though he is listed on the letter as the second addressee.

The property is apparently located in the floodplain. The area next to the building has apparently been filled since it is 4-5' higher than the swampy area topography. Fox believes that the fill was iron shavings, grindings and turnings which have rusted to the reddish-brown color. There are also rumors that foundry sand was disposed before the rusted material was deposited. Large chunks of foundry slag were found on the far west side of the site.

Adjacent property owners to the north and northwest have started constructing new buildings and plan on concreting over the entire grounds. This property along with the parcel purchased by Magnetic Data Carriers, constitute the property occupied by Hanson Equipment Company prior to bankruptcy parcelling. Dawson and Fox expressed concern that those parcels are also possibly contaminated and shouldn't be concreted over until sampled. The water table is purportedly 5' under the concrete pad where wastes were stored. A 15' well on the adjacent property to the northwest is no longer used apparently due to contamination. Some drums, which possibly contain hazardous waste, may have been moved from that property when consolidating wastes into the round building.



Fox estimated that clean-up of the container storage area would cost approximately \$20,000. MDC had planned on spending \$250,000 in renovation of the existing building and hiring 60 people at the plant. He is investigating other properties to purchase for expansion (the main plant is located in Rockford). South Beloit (Mayor, Gary Pierce) is anxious to help MDC at the property. Originally, Dawson believed that if the closure is limited to the drum storage area, he would keep the property and go through closure. If the reddish-brown material contains hazardous contaminants and is required to go through closure, then he hopes to have the property ownership transaction rescinded.

Four Polaroids taken by Fox or Dawson of the property were passed around. One picture showed the corner of a building near the round shed. Near this corner is a pipe sticking out of the ground. One source had said that no 1,1,1 trichlor was disposed in the pipe, just acids were disposed there. Exposed bricks of material (probably foundry slag) is located near the south side of the reddish-brown material. Pictures of the site taken by Holzer were also passed around.

Fox prepared a list of possible closure activities which included:

- 1) Close the container storage area.
- 2) Sample soils at the round shed and to the west.
- 3) Sample the oil-stained reddish-brown material and confirm the EP Toxicity test by Frinks.
- 4) Cover reddish-brown area (if NH) with 2' compacted soil.
- 5) Sample the foundry sand.
- 6) Core the reddish-brown fill area.
- 7) Excavate the area around the stand-pipe where wastes were purportedly disposed.
- 8) Determine ground-water elevation and direction of flow.

The RCRA closure plans were discussed, with special attention given the CERCLA questionnaire. By the end of the meeting, Dawson expressed an interest in rescinding the real estate transaction. He said he will be in court Monday, June 9, 1986 to decide whether he should attempt rescinding the transaction.

PML/lis

cc: Rockford Region  
Remedial Project Management Section, Jim Janssen  
Steven Strauss, Enforcement  
Geordie Smith, Compliance

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Attachment A

June 6, 1986 - Magnetic Data Carriers Meeting

Perry Keller	IEPA-LPC	987-74011
Pat Luedtke	"	"
Jack Kitzner	IEPA-CPC	"
Murray H. Dawson	Magnetic Data Carriers	963-0808
Gene Fox	Fehr-Graham	235-7643

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DATE: July 8, 1986  
TO: Division File  
FROM: Pat Luedtke *PL*  
SUBJECT: 2010455012 - Winnebago County  
South Beloit/Magnetic Data Carriers-Hanson Equipment Company  
Pre-Enforcement Conference Memo

On July 3, 1986, a Pre-Enforcement Conference was held with John Relias, Attorney for Magnetic Data Carriers, Murray Dawson, President of Magnetic Data Carriers, Joseph Olsen, Bankruptcy Trustee, Stephen Balsley, Attorney for the Trustee (Hanson), Randal Olson of FIW, Inc., and Bob Wengrow, Kerry Keller, Jack Holzer and myself of the IEPA.

Randy Olson, of FIW, presented the status of wastes found at the site. Nine drums of hazardous waste were found, five from the outside and four in the round building. 47 drums of non-hazardous waste are on-site. These wastes were consolidated from the 107 drums originally found on-site. Hazardous wastes were determined so by flash point. Six composites were run of the fifty-six drums to make the hazardous waste determination. See attached for results of analyses.

During the bankruptcy proceedings earlier on July 3, 1986, \$30,000 were authorized for expenditure on clean-up of the site. Magnetic Data Carriers is presently the owner of the property.

Since no hazardous waste determination of the reddish brown material, the ground under the standpipe near the corner of the main building or the foundry sand have been made, it was agreed that the areas should be sampled before a closure plan is drawn up and before it can be determined whether \$30,000 will cover the cost of closure. A determination of hazardous waste will be made for the three remaining areas which may be contaminated; a core of the reddish brown/foundry sand disposal and a sample of the standpipe area. Randy Olson of FIW will take and analyze samples approximately in accordance with the sketch attached to the PEC letter. The determinations will be presented July 28, 1986 at the IEPA Regional Office. A closure plan submittal date will also be set during the July 28 meeting. The drums of hazardous waste will be moved from the main building back to the round shed before they can accumulate there over 90 days, or by August 1, 1986.

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2010455012

South Beloit/Magnetic Data Carriers-Hanson Equipment Company  
Pre-Enforcement Conference Memo

July 8, 1986

Page 2

A record - review of the May 1, 1986 inspection will be performed to cite Part 725 violations since a regulable quantity of wastes were determined hazardous.

After the Pre-Enforcement Conference, John Relias called to clarify the ownership of the property. He indicated that MDC will pursue rescinding the purchase agreement. If the agreement is rescinded, MDC will not be listed in the chain of ownership. Relias feels the EPA should file a claim against the bankruptcy court as soon as possible. See attached telephone record for more information.

ls

cc: Rockford Region

Steven Strauss

Geordie Smith (no attachments)

aqualab inc.  
3548 35th St.  
Rockford IL 61109  
815-874-2171



# ANALYTICAL REPORT

Mr. Randy Olson  
FIW INC  
6125 No Pecatonica Road  
Pecatonica, IL: 61063

30 may 1986  
Sample No. 40444

SAMPLE DESCRIPTION: General Hydraulics-530-Sample 50  
P.O. 1622

Date Taken: 05-13-86

Date Received: 05-19-86

Ash	0.01	%
BTU	10,823.	BTU/lb
Chlorine	2.90	%
Sulfur	2.88	%

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JUL 01 1986

IEPA-DLPC

*Toni Gartner*  
Toni Gartner

aqualab inc.  
3548 35th St.  
Rockford IL 61109  
815-874-2171



## ANALYTICAL REPORT

Mr. Randy Olson  
FIW  
6125 No. Pecatonica Road  
Pecatonica IL 61063

05 June 1986  
Sample No. 40445

SAMPLE DESCRIPTION: General Hydraulics-531-Sample 51  
P.O. 1622

Date Taken: 05-16-86

Date Received: 05-19-86

### Corrosivity

pH	6.64	units
----	------	-------

### Ignitability

Flash Point	No Flash	@ B.P. (180F)
-------------	----------	---------------

### Totals

Arsenic	<0.01	ug/g
Barium	2.90	ug/g
Cadmium	0.006	ug/g
Chromium	0.009	ug/g
Lead	<0.01	ug/g
Mercury	<0.001	ug/g
Selenium	<0.01	ug/g
Silver	<0.001	ug/g

### Other Characteristics

Solids, total	0.07	%
Ash	0.04	%
BTU	DNI**	BTU/lb
Chlorine	DNI**	%
Sulfur	DNI**	%
B.S. & W.	98.	%
Endrin	*	
Lindane	*	
Methoxychlor	*	
Toxaphene	*	
2,4,-D	*	
2,4,5-TPSilvex	*	

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IEPA-DLFC

\*Results to follow.

\*\*Did not ignite with ethylene glycol.

*L. Gartner*  
Toni Gartner  
R

aqualab inc.

3548 35th St.  
Rockford IL 61109  
815-874-2171



# ANALYTICAL REPORT

Mr. Randy Olson  
FIW  
6125 No. Pecatonica Road  
Pecatonica IL 61063

06 June 1986  
Sample No. 40446

SAMPLE DESCRIPTION: General Hydraulics-532-Sample 52  
P.O. 1622

Date Taken: 05-16-86

Date Received: 05-19-86

## Ignitability

Flash Point	Flash	@ 72F
-------------	-------	-------

## Corrosivity

pH	4.75	units
----	------	-------

## Totals

Arsenic	<0.01	ug/g
Barium	34.0	ug/g
Cadmium	0.30	ug/g
Chromium	2.10	ug/g
Lead	<1.0	ug/g
Mercury	<0.001	ug/g
Selenium	<0.01	ug/g
Silver	<0.1	ug/g

## Other Characteristics

Solids, total	2.14	%
Ash	0.16	%
BTU	3023.	BTU/lb
Chlorine	0.09	%
Sulfur	0.26	%
B.S. & W.	96.	%

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*T. Gartner*  
Tom Gartner,

aqualab inc.  
348 35th St.  
Rockford IL 61109  
815-874-2171



# ANALYTICAL REPORT

Mr. Randy Olson  
FIW  
6125 No. Pecatonica Road  
Pecatonica IL 61063

06 June 1986  
Sample No. 40447

SAMPLE DESCRIPTION: General Hydraulics-533-Sample 53  
P.O. 1622

Date Taken: 05-16-86

Date Received: 05-19-86

## Ignitability

Flash Point	Flash	@ 170F
-------------	-------	--------

## Corrosivity

pH	6.26	units
----	------	-------

## Totals

Arsenic	<0.01	ug/g
Barium	97.0	ug/g
Cadmium	0.50	ug/g
Chromium	4.50	ug/g
Lead	29.0	ug/g
Mercury	<0.001	ug/g
Selenium	<0.01	ug/g
Silver	<0.1	ug/g

## E.P.Toxicity

Lead	0.11	mg/L
------	------	------

## Other Characteristics

Solids, total	3.99	%
Ash	0.95	%
BTU	DNI*	BTU/lb
Chlorine	DNI*	%
Sulfur	DNI*	%
B.S. & W.	94.	%

\*Did not ignite with ethylene glycol.

*L. Gartner*  
Tony Gartner <sub>RJ</sub>

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EPA-DLPC



aqualab inc.

3548 35th St.  
Rockford IL 61109  
815-874-2171



# ANALYTICAL REPORT

Mr. Randy Olson  
FIW  
6125 No. Pecatonica Road  
Pecatonica IL 61063

06 June 1986  
Sample No. 40449

SAMPLE DESCRIPTION: General Hydraulics-535-Sample 55  
P.O. 1622

Date Taken: 05-16-86

Date Received: 05-19-86

## Ignitability

Flash Point	No Flash	@ B.P. (195F)
-------------	----------	---------------

## Corrosivity

pH	6.58	units
----	------	-------

## Totals

Arsenic	<0.01	ug/g
Barium	123.	ug/g
Cadmium	0.20	ug/g
Chromium	310.	ug/g
Lead	1080.	ug/g
Mercury	<0.001	ug/g
Selenium	<0.01	ug/g
Silver	<0.1	ug/g

## E.P.Toxicity

Barium	7.89	mg/L
Chromium	4.29	mg/L
Lead	1.51	mg/L

## Other Characteristics

Solids, total	7.11	%
Ash	1.03	%
BTU	4962.	BTU/lb
Chlorine	0.02	%
Sulfur	0.37	%
B.S. & W.	96.	%

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IEP-DLPC

*Toni Gartner*  
Toni Gartner,

# REFERENCE NUMBER

5

*See B-100/Hanson Equipment  
May 1987*

M. Rapps Associates, Inc.

2387 WEST MONROE, SUITE 123, SPRINGFIELD, ILLINOIS 62704 — (217) 787-2118

## ENVIRONMENTAL ENGINEERING

September 30, 1987

Barrick, Switzer, Long, Balsley & VanEvera  
611 AMcore Bank Building  
226 South Main Street  
Rockford, Illinois 61101

IEPA — 11/1/87  
STATE OF ILLINOIS

ATTN: Stephen G. Balsley

Re: Hanson Equipment  
Closure

Dear Mr. Balsley:

It has been quite some time since our last conversation and, for reasons which follow, there has actually been little point in giving you a report. However, a recent meeting with IEPA staff has brought this matter back into focus. This is to bring you up to date.

After receiving the water analyses from the on-site monitoring wells in early July, I phoned Steven Strauss at IEPA to request a meeting with Agency staff. Several phone calls ensued, back and forth, through July and into August. Due to vacations, other conflicts, and, in particular, the need to arrange for the attendance of Bob Wengrow from IEPA's Rockford office, the earliest meeting date that could be arranged was September 2nd. On that date myself and two of my staff members met with Steven Strauss, Bob Wengrow, and Bob Carson of IEPA's RCRA unit (hazardous waste).

We sought the meeting in order to share our findings and to solicit Agency advice as to how best to proceed toward resolution of this matter. In the main, our data show that groundwater movement is toward the West-Southwest at a very slight gradient. We have also identified that two of the monitoring wells contain trace levels of chlorinated solvents. The areal configuration of the contaminants is suggestive of a text-look variety plume that tends to cut a North-Northeast to South-Southwest plane through the center.

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Stephen C. Balsley  
September 30, 1987  
Page 2

of the property. The uniformity in concentration for all contaminants identified in the two wells seems indicative of the center line or edge of a plume originating somewhere to the North. Indeed, through review of the files and discussions with North American Tool Corp.'s plant manager we learned of a rumor that the plant well at Trendwidth Industries to the North was also contaminated with solvents.

Subsoils on the property are coarse grained and pervious sands and gravels which, in our experience, probably display permeabilities in the vicinity of  $10^{-2}$  cm/sec. But, because of the small hydraulic gradient (i.e., 0.00065 ft./ft.), groundwater movement, which might otherwise be fairly rapid, is actually somewhat slow (i.e., 30 ft./year  $\pm$ ).

At the meeting we expressed reluctance to perform chemical analyses on the granular soils due to poor recoveries and the generally dubious results that we've obtained at similar job sites. The Agency was in general agreement owing to their own experience. In this vein, we concluded that if there were to be additional physical or chemical testing it would be best directed toward sampling and analysis of groundwater samples.

After review of the technical information, all of which was forwarded to Agency on September 17th, the following conclusions emerged:

1. A RCRA closure plan is not a viable option for this site. This is because the site is not a RCRA regulated unit. The former storage area might qualify (technically) as a CERCLA (Superfund) regulated facility, although the magnitude of this situation is unlikely to trigger a CERCLA action. Rather, should additional clean-up be necessary, it would more appropriately be handled as a voluntary action under the auspices of an IEPA program known as "4-Q". There are many advantages to this, not least of which is avoidance of the statutory 30 year RCRA monitoring requirement.
2. There is general recognition of the limit on funding for any future work and there is a concurrent desire to avoid expenditure of public funds to the greatest extent possible.
3. A finite set of options exist for future work:
  - a) Install and sample additional wells on the property (beyond the property lines) in order to more fully define the plume and its source. Remediation could follow should this action track the source to the old storage area.

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Stephen G. Dalsley  
September 30, 1987  
Page 3

- b) Take measures to remediate the plume as it exists on-site i.e., through biological means or mechanical air-stripping. The down-side of this is that contaminant levels are very low. Consequently, any further reduction of the contamination may be very limited.
  - c) Assuming that the contaminant source has now been removed, the associated plume will diminish in strength over a period of time and at distance from the source. If so, periodic monitoring of existing wells for a few years may be the appropriate course of action. If it can be determined that the Hanson Equipment property is not the source of the plume, then the problem, from the trustee's point of view can be considered solved.
4. In view of the circumstances, IEPA has recommended that we do some additional detective work before committing to major expenditures for additional wells, sampling, etc. This would be in the form of interviews and the like with past or present occupants of the property and its surroundings that might shed light on the following:
- a) identification of materials used by Hanson Equipment that either relate or do not relate to the observed contamination. This includes identification of the reddish residue mentioned in our files.
  - b) identification of any cap on the trustee's resources that would inherently limit follow-up work.
  - c) investigate the rumor that the plant well at Trendwidth Industries is contaminated.
  - d) investigate the underground tank or pipe reportedly not adjacent to the building.

Since the meeting, we have been in contact with Mr. Roger Taylor, plant manager for North American Tool Corp. (815-389-1000) and Mr. Cy Hotch, plant manager for Trendwidth (815-389-3000). We have also re-examined analytical data generated by FID in conjunction with the clean-up. We have learned the following:

- The reddish residue once present on the property was fiberglass waste (source: Roger Taylor).

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Stephen G. Paisley  
September 30, 1987  
Page 4

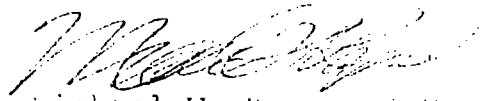
- The underground pipe/tank was a 55-gallon fiberglass drum, the purpose of which is unknown. North American Tool has sealed it with concrete (Source: Roger Taylor). Note: the drum contents and soil beneath the drum were sampled by FIW and found to contain no volatiles, and to be non-hazardous.
- The Trendwidth well is contaminated with chlorinated solvents. Plant water is now filtered through activated carbon (Source: Cy Hoteck). Note: Mr. Hoteck told us that he would contact his corporate office to obtain a copy of an analyses of the affected well and forward same. We do not have the analyses at this writing. The well is 200'-250' upgradient of the old storage area.
- The only analysis of drum contents contained in our files identify only non-chlorinated aromatics.....as opposed to the chlorinated aliphatics found in the groundwater. The aromatics solvents may have been used for fiberglass molding and paint clean-up, operations known to have occurred at the plant. At this point we do not know if the plant used chlorinated de-greasers.

In light of the foregoing, it is beginning to appear that the identified plume originates at some point up-stream of the storage area. Obviously, we cannot state with 100% certainty that materials once housed in the storage area did not contribute to the plume; only that there presently is no evidence of such. There is very little else we can do at this point other than to follow-up on the one or two loose ends mentioned herein. Further technical investigation would take us off the property. Consequently, we are recommending that you contact Steven Strauss to seek his advice.

Please let me know if you have any questions.

Thank you.

Sincerely,

  
Michael U. Rapp, P.E.

WRP/jh

cc: Steven Strauss  
Bob Mengrow  
Bob Carson

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# REFERENCE NUMBER

6 *cc Bob Wangen  
Bob Coleman*

M. Rapps Associates, Inc.

2387 WEST MONROE, SUITE 123, SPRINGFIELD, ILLINOIS 62704 — (217) 787-2118

## ENVIRONMENTAL ENGINEERING

October 30, 1987

Illinois Environmental Protection Agency  
Division of Land Pollution Control  
2200 Churchill Road  
P.O. Box 19276  
Springfield, Illinois 62794-9276

ATTN: Stephen Strauss

RE: S. Beloit/Magnetic Data  
Carriers-Hanson Equipment

Co.

*W.D.* → I.D. No.: 2010455012

Dear Stephen:

Enclosed is a copy of the analysis report which we received from Alan Kingston of Trenwyth Industries, Inc. The report indicates that tetrachloroethylene was found at a level of 1.8 ppb in the well located at the Trenwyth S. Beloit facility.

Please call after you have had an opportunity to review the analysis report.

Sincerely,

*Daniel V. Flynn*

Daniel V. Flynn  
M. RAPPS ASSOCIATES, INC.

DVR/jh

enclosure

cc: Steve Balsley

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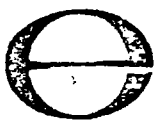
MAR 30 1988

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MAR 30 1988

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## ENVIRO-LAB, INC.

Analytical Services for Water • Wastewater • Industry • Agriculture

1221 HANOVER RD. • YORK, PA 17404-6299

PHONE (717) 225-5686

Trenwyth Indust/D McKinsey  
Box 438  
Emigsville Pa 17318

7-3-86

### WATER ANALYSIS REPORT

Sample Name: Trenwyth Indust  
Sample Marking: 208 Charles Ave  
South Beloit Ill  
Date collected: 6-23-86  
Collected by: client

Volatiles in groundwater	Results	Detection Limit
Vinyl Chloride	< 1. ppb	1. ppb
1,1,1 Trichloroethane	< 1. ✓ ppb	1. ppb
Carbon tetrachloride	< 1. ppb	1. ppb
1,1 Dichloroethylene	< 1. ppb	1. ppb
Trichloroethylene	< 1. ppb	1. ppb
Chloroform	< 1. ppb	1. ppb
Tetrachloroethylene <i>done</i>	1.8 ✓ ppb	1. ppb
1,2 Dichloroethane	< 1. ppb	1. ppb
Bromodichloromethane	< 1. ppb	1. ppb
Chlorodibromomethane	< 1. ppb	1. ppb
Bromoform	< 2. ppb	2. ppb
1,4 Dichlorobenzene	< 1. ppb	1. ppb

No representations as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,  
ENVIRO-LAB, INC.

Robert L. Weaver,  
Director

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TRENWYTH INDUSTRIES, INC.



One Connelly Road, P.O. Box 438, Emigsville, Pennsylvania 17318 717 767-6868 • 800 233-1924

October 20, 1987

DATE RECEIVED  
OCT 26 1987  
M. RAPP'S ASSOCIATES

Mr. Dan Flynn  
M. Rapps & Associates, Inc.  
2387 West Monroe St.  
Springfield, IL 62704

RE: Well Water - 208 Charles Ave., South Beloit, IL

Dear Mr. Flynn:

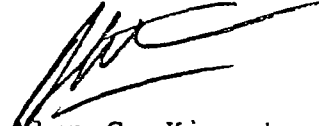
Enclosed is a copy of a water analysis report on the water taken from the subject well.

We installed a charcoal filtering system for the drinking water used in the plant.

If you have any questions, please call. I'm sorry it took so long to get this report to you.

Sincerely,

TRENWYTH INDUSTRIES, INC.

  
Alan C. Kingston  
President

Enclosure

ACK/lm

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M. Rapps Associates, Inc.

2387 WEST MONROE, SPRINGFIELD, ILLINOIS 62704 — (217) 787-2118

## ENVIRONMENTAL ENGINEERING

January 19, 1988

Illinois Environmental Protection Agency  
Enforcement Section  
2200 Churchill Road  
P.O. Box 19276  
Springfield, Illinois 62794-9276

ATTN: Steven Strauss

RE: S. Beloit/Magnetic Data  
Carriers-Hanson Equipment Co.  
I.D. No.: 2010455012

Dear Steven:

This is in follow-up to our January 6, 1988 telephone conversation. On December 21, 1987, water samples were obtained from wells located on property north and northeast of the above identified site. The water wells are owned and used by Trenwyth Industries and Hanson General Products respectively. The water samples were obtained and analyzed for volatile organic compounds by Aqualab Inc. The results of the analysis are attached.

Only one organic compound, tetrachloroethene, was detected. It was found in both wells. The Trenwyth well contained a tetrachloroethene concentration of 1.4 ug/l. The Hanson General Products well, which is located in the northeast corner of their plant, contained a tetrachloroethene concentration of 1.3 ug/l.

Tetrachloroethene is one of the organic compounds detected in two of the four monitoring wells installed at the subject site, the former Hanson Equipment Company, which is now occupied by North American Tool Corporation. The two wells are G101 and G104. The concentrations of tetrachloroethene found were 5.8 ug/l and 4.8 ug/l respectively.

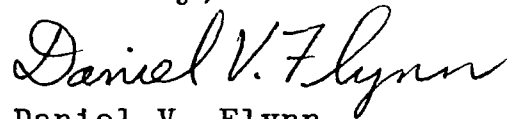


Steven Strauss  
January 19, 1988  
Page 2

Water levels in the subject site's four monitoring wells determined on June 15, 1987 indicate that the Trenwyth Industries well and the Hanson General Products well are hydraulically upgradient of the subject site. The presence of tetrachloroethene in these wells suggests that an upgradient source of contamination exists and affects the groundwater quality of the subject site.

Please review the attached analyses results and call with your comments. I am sending copies of this letter to Bob Carson and Bob Wengrow of the IEPA Land Division permit section and Rockford Region field office.

Sincerely,

A handwritten signature in cursive script that reads "Daniel V. Flynn".

Daniel V. Flynn  
M. RAPPS ASSOCIATES, INC.

DVF/jh

cc: Steve Balsley



## ANALYTICAL REPORT

Mr. Mike Rogers  
RAPPS ASSOCIATES  
2387 West Monroe  
Springfield IL 62704

12-31-87

Sample No: 50922

SAMPLE DESCRIPTION: Hanson General Products  
Well Water (Outside Faucet)

Date Taken: 12-21-87 0920

Date Received: 12-21-87 1034

### VOLATILE COMPOUNDS

Acrolein	<10.	ug/L
Acrylonitrile	<10.	ug/L
Benzene	<1.0	ug/L
Bromodichloromethane	<1.0	ug/L
Bromoform	<1.0	ug/L
Bromomethane	<10.	ug/L
Carbon tetrachloride	<1.0	ug/L
Chlorobenzene	<1.0	ug/L
Chloroethane	<10.	ug/L
2-Chloroethyl vinyl ether	<1.0	ug/L
Chloroform	<1.0	ug/L
Chloromethane	<10.	ug/L
Dibromochloromethane	<1.0	ug/L
1,2-Dichlorobenzene	<1.0	ug/L
1,3-Dichlorobenzene	<1.0	ug/L
1,4-Dichlorobenzene	<1.0	ug/L
1,1-Dichloroethane	<1.0	ug/L
1,2-Dichloroethane	<1.0	ug/L
1,1-Dichloroethene	<1.0	ug/L
trans-1,2-Dichloroethene	<1.0	ug/L
cis-1,2-Dichloroethene	<1.0	ug/L
1,2-Dichloropropane	<1.0	ug/L
cis-1,3-Dichloropropene	<1.0	ug/L
trans-1,3-Dichloropropene	<1.0	ug/L
Ethylbenzene	<1.0	ug/L

  
Toni Gartner, Manager  
Rockford Division

#### Austin Division

2621-130 Ridgepoint Dr.  
Austin TX 78754  
512-928-8905

#### Bartlett Division

850 West Bartlett Rd.  
Bartlett IL 60103  
312-289-3100

#### Rosner/Runyon Division

222 South Morgan St.  
Chicago IL 60607  
312-666-4469

#### Rockford Division

3548 35th St.  
Rockford IL 61109  
815-874-2171

#### Corporate Office

850 West Bartlett Rd.  
Bartlett IL 60103  
312-289-3100



## ANALYTICAL REPORT

Mr. Mike Rogers  
RAPPS ASSOCIATES  
2387 West Monroe  
Springfield IL 62704

12-31-87

Sample No: 50922


SAMPLE DESCRIPTION: Hanson General Products  
Well Water (Outside Faucet)

Date Taken: 12-21-87 0920

Date Received: 12-21-87 1034

### VOLATILE COMPOUNDS

Methyl ethyl ketone	<1.0	ug/L
Methylene chloride	<5.0	ug/L
1,1,2,2-Tetrachloroethane	<1.0	ug/L
Tetrachloroethene	1.3	ug/L
Toluene	<1.0	ug/L
1,1,1-Trichloroethane	<1.0	ug/L
1,1,2-Trichloroethane	<1.0	ug/L
Trichloroethene	<1.0	ug/L
Vinyl chloride	<10.	ug/L
Xylenes	<1.0	ug/L

  
Toni Bartner, Manager  
Rockford Division

Austin Division	Bartlett Division	Rosner/Runyon Division	Rockford Division	Corporate Office
2621-130 Ridgepoint Dr. Austin TX 78754 512-928-8905	850 West Bartlett Rd. Bartlett IL 60103 312-289-3100	222 South Morgan St. Chicago IL 60607 312-666-4469	3548 35th St. Rockford IL 61109 815-874-2171	850 West Bartlett Rd. Bartlett IL 60103 312-289-3100



## ANALYTICAL REPORT

Mr. Mike Rogers  
RAPPS ASSOCIATES  
2387 West Monroe  
Springfield IL 62704

12-31-87

Sample No: 50923


SAMPLE DESCRIPTION: Trendwith Ind.(Before Filter)  
Well Water(Outside Faucet)

Date Taken: 12-21-87

Date Received: 12-21-87 1034

### VOLATILE COMPOUNDS

Acrolein	<10.	ug/L
Acrylonitrile	<10.	ug/L
Benzene	<1.0	ug/L
Bromodichloromethane	<1.0	ug/L
Bromoform	<1.0	ug/L
Bromomethane	<10.	ug/L
Carbon tetrachloride	<1.0	ug/L
Chlorobenzene	<1.0	ug/L
Chloroethane	<10.	ug/L
2-Chloroethyl vinyl ether	<1.0	ug/L
Chloroform	<1.0	ug/L
Chloromethane	<10.	ug/L
Dibromochloromethane	<1.0	ug/L
1,2-Dichlorobenzene	<1.0	ug/L
1,3-Dichlorobenzene	<1.0	ug/L
1,4-Dichlorobenzene	<1.0	ug/L
1,1-Dichloroethane	<1.0	ug/L
1,2-Dichloroethane	<1.0	ug/L
1,1-Dichloroethene	<1.0	ug/L
trans-1,2-Dichloroethene	<1.0	ug/L
cis-1,2-Dichloroethene	<1.0	ug/L
1,2-Dichloropropane	<1.0	ug/L
cis-1,3-Dichloropropene	<1.0	ug/L
trans-1,3-Dichloropropene	<1.0	ug/L
Ethylbenzene	<1.0	ug/L

  
Toni Gartner, Manager  
Rockford Division

#### Austin Division

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Austin TX 78754  
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#### Corporate Office

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Bartlett IL 60103  
312-289-3100



## ANALYTICAL REPORT

Mr. Mike Rogers  
RAPPS ASSOCIATES  
2387 West Monroe  
Springfield IL 62704

12-31-87

Sample No: 50923

SAMPLE DESCRIPTION: Trendwith Ind.(Before Filter)  
Well Water(Outside Faucet)

Date Taken: 12-21-87

Date Received: 12-21-87 1034

### VOLATILE COMPOUNDS

Methyl ethyl ketone	<1.0	ug/L
Methylene chloride	<5.0	ug/L
1,1,2,2-Tetrachloroethane	<1.0	ug/L
Tetrachloroethene	1.4	ug/L
Toluene	<1.0	ug/L
1,1,1-Trichloroethane	<1.0	ug/L
1,1,2-Trichloroethane	<1.0	ug/L
Trichloroethene	<1.0	ug/L
Vinyl chloride	<10.	ug/L
Xylenes	<1.0	ug/L

  
Toni Gartner, Manager  
Rockford Division

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#### Corporate Office

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312-289-3100





## ANALYTICAL REPORT

Mr. Mike Rogers  
RAPPS ASSOCIATES  
2387 West Monroe  
Springfield IL 62704

12-31-87

Sample No: 50924

SAMPLE DESCRIPTION: Trip Blank  
Well Water(Outside Faucet)

Date Taken: 12-21-87 0815

Date Received: 12-21-87 1034

### VOLATILE COMPOUNDS

Acrolein	<10.	ug/L
Acrylonitrile	<10.	ug/L
Benzene	<1.0	ug/L
Bromodichloromethane	<1.0	ug/L
Bromoform	<1.0	ug/L
Bromomethane	<10.	ug/L
Carbon tetrachloride	<1.0	ug/L
Chlorobenzene	<1.0	ug/L
Chloroethane	<10.	ug/L
2-Chloroethyl vinyl ether	<1.0	ug/L
Chloroform	<1.0	ug/L
Chloromethane	<10.	ug/L
Dibromochloromethane	<1.0	ug/L
1,2-Dichlorobenzene	<1.0	ug/L
1,3-Dichlorobenzene	<1.0	ug/L
1,4-Dichlorobenzene	<1.0	ug/L
1,1-Dichloroethane	<1.0	ug/L
1,2-Dichloroethane	<1.0	ug/L
1,1-Dichloroethene	<1.0	ug/L
trans-1,2-Dichloroethene	<1.0	ug/L
cis-1,2-Dichloroethene	<1.0	ug/L
1,2-Dichloropropane	<1.0	ug/L
cis-1,3-Dichloropropene	<1.0	ug/L
trans-1,3-Dichloropropene	<1.0	ug/L
Ethylbenzene	<1.0	ug/L

  
Toni Gartner, Manager  
Rockford Division

#### Austin Division

2621-130 Ridgepoint Dr.  
Austin TX 78754  
512-928-8905

#### Bartlett Division

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#### Corporate Office

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312-289-3100



## ANALYTICAL REPORT

Mr. Mike Rogers  
RAPPS ASSOCIATES  
2387 West Monroe  
Springfield IL 62704

12-31-87

Sample No: 50924


SAMPLE DESCRIPTION: Trip Blank  
Well Water (Outside Faucet)

Date Taken: 12-21-87 0815

Date Received: 12-21-87 1034

### VOLATILE COMPOUNDS

Methyl ethyl ketone	<1.0	ug/L
Methylene chloride	<5.0	ug/L
1,1,2,2-Tetrachloroethane	<1.0	ug/L
Tetrachloroethene	<1.0	ug/L
Toluene	<1.0	ug/L
1,1,1-Trichloroethane	<1.0	ug/L
1,1,2-Trichloroethane	<1.0	ug/L
Trichloroethene	<1.0	ug/L
Vinyl chloride	<10.	ug/L
Xylenes	<1.0	ug/L

  
Toni Gartner, Manager  
Rockford Division

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Bartlett IL 60103  
312-289-3100

8

**SEE PAGE 6 A**

~~NEPA DISPC~~

[illegible]

# REFERENCE NUMBER

9

STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY

## TELEPHONE CONVERSATION RECORD

Winnebago  
COUNTY

LPC

DIVISION

L 201045022

South Beloit

/ General Hydraulics

I. D. or FILE NO.

ILD 984767806

Re: find out information on site

Conversation with: Don Joyce of Accra Plastics (815) 389-5100

(X) I Called Party ( ) Party Called Me DATE 5/8/90 TIME 11:25 A

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

### What I Said:

Could you help me find out about General Hydr.?

How many years was he in operation?

What did he produce?

The address stated 301 Charles, was that  
part, or the north side of Charles Ave also  
owned by Hanson?

What did he use the buildings for?

### What Other Party Said:

yes, purchased less than one acre  
plot in '85 from Hanson bankruptcy in early  
(General Hydraulics)

30 years, started in early '50's  
General Hydraulics manufactured lawn  
and garden equipment such as lawn  
sprayers and snow blowers, mowers

no, he leased that building as  
an office. He owned our building, <sup>prop</sup>  
(815) 389-3003-50 employees  
Trendytech Industries' building <sup>property</sup> and North  
American Tool Corp's property and building

The machine shop was located in North  
American Tool Corp's building, he used  
our facility to make for the fiberglass operator  
to make sprayer tanks, the metal building  
just west of ~~was~~ owned by Trendytech Ind.  
and was used for welding and fabrication  
use reverse side if necessary  
by Hanson's General Hydraulics

EPS

Title

Timothy J. Murphy  
Signature

Other →

What I Said:

Therendytk has a well in use, are  
you on city water?

Do you know where magnetic data carriers  
were located?

What Other Party Said:

no, we have a well but just  
for manufacture, ~~our~~ well was tested  
and OKed, but we have bottled water for  
drinking anyway

yes, they were going to buy where North  
American Tool ~~is~~ located, but they got  
out because of the clean up.

Comments

Referred to: Unit

Copies to: ( ) File

Recommendations

Signature





LOG OF WATER WELL

Property owner Mrs. Camp Well No. 1

Drilled by Bloper Well Co. Year 1965

Formations passed through

Gravel Thick- ness 41 Depth of Bottom 41

COUNTY NO. 1996

[Continue on back if necessary]

Finished in Gravel at 39 to 41 ft.

Cased with 4 inch B.H. E.T. from 0 to 39 ft.

and 4 inch nickel from 39 to 41 ft.

Size hole below casing 8 inch. Static level from surf. 25 ft.

Tested capacity 8 gal. per min. Temperature 5 °F.

Water lowered to 26 ft. in 1 hrs. min.

Length of test 3 hrs. min. Screen Johnston

Slot 15 Diam. 4 " Length 8 ' Bottom set at 41 ft.

[Show location in Section Plate]

Township name Roscoe Elev. 5

Description of location 1050

Harlow St. S. Beloit


Sec. 5

Twp. 46 N

Rge. 2 E

Signed Ben Wengert County Winnebago

WINNEBAGO State Geological Survey Index: 5-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-2-74

10. Property owner Henry Carlson Well No. 1

Address 715 Allen St. So Beloit

Driller E.H. Greenfield License No. 92-582

11. Permit No. 30592 Date June 17

12. Water from Sand Formation Winnebago

at depth 66 to 68 ft. Sec. 5

14. Screen: Diam. 4 in. Twp. 46 N

Length: 2 ft. Slot 20 Rge. 2 E

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	SHOW LOCATION IN SECTION PLAT
<u>4</u>	<u>B.H. P.E. 11# ft.</u>	<u>0</u>	<u>66</u>	<u>100' S1, 100' E1</u>
<u>4</u>	<u>Johnson 55 screen</u>	<u>66</u>	<u>68</u>	<u>of SE SW SE</u>

16. Size Hole below casing: 8 in. (Permit)

17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 10 hours. Submersible pump set at 60'

18. FORMATIONS PASSED THROUGH

Sand + gravel THICKNESS 50 DEPTH OF BOTTOM 50

Sand THICKNESS 18 DEPTH OF BOTTOM 68

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED SL Merrill DATE July 26

COUNTY NO. 23157

WINNEBAGO 5-46N-2E

Completed 9-25-74

- 
- |  |   |  |  |  |
|--|---|--|--|--|
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|  | ○ |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |

- | 18. | FORMATIONS PASSED THROUGH | THICKNESS | DEPTH OF BOTTOM |
|-----|---------------------------|-----------|-----------------|
|     |                           |           |                 |

[illegible]

COUNTY No. 23277

5-46N-2E

PREPARE AND SUBMIT IN DUPLICATE \_\_\_\_\_  
STATE DEPARTMENT OF MINES AND MINERALS: \_\_\_\_\_  
Please issue an authorization to drill a water well on the property of \_\_\_\_\_  
whose address is \_\_\_\_\_  
said well to be located as follows  
feet (East-West) and \_\_\_\_\_ feet (North-South) of the \_\_\_\_\_  
1/4 of Section \_\_\_\_\_ Township \_\_\_\_\_ (North-South) Range \_\_\_\_\_  
\_\_\_\_\_ (East-West), \_\_\_\_\_ CORNER \_\_\_\_\_  
or otherwise located as Lot 11 of Block Eight of South Elloit, III  
County \_\_\_\_\_

PREPARE AND SUBMIT IN DUPLICATE 195  
STATE DEPARTMENT OF MINES AND MINERALS:  
Please issue an authorization to drill a water well on the property of John E. McArthur  
whose address is 461 N. Main St.,  
La Bledsoe; said well to be located as follows:  
feet (East-West) and 5 feet (North-South) of the Corr.  
1/4 of Section 5, Township 11 N., Range (North-South)  
of the 2 (East-West), 6 11 N. E. 8 E. 6 Corr. 11 N. E. 8 E. 6  
or otherwise located as Lot 11 of Block Eight of South Elloit, Ill  
County 4

Section \_\_\_\_\_

Said well is to be drilled with \_\_\_\_\_ tools to a depth of approximately \_\_\_\_\_ feet with an anticipated yield of \_\_\_\_\_ gals. per minute; drilling will begin on or after receipt of authorization.

Signature of Driller: [Signature] Address: [Address] City: [City]

Permit Only

COMPANY Douglas B. Holzen  
FARM Gardner Machine

DATE DRILLED

COUNTY N

COUNTY WINNEBAGO

5-16N-2F

# GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-5-74

10. Property owner Carlsberg Machine Well No.

Address 50 13th St. E. 11.

Driller Ed. Hestrich License No. 52-582

11. Permit No. 24297 Date Oct. 28

12. Water from 50' to 62' 13. County Winnebago

at depth 52 to 62 ft.

14. Screen: Diam. 8 in.

Length: 10 ft. Slot 20

Sec. 5  
Twp. 46 N  
Rge. 2 E  
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
8	13K DC 28.5 TH	0	52
8	Marking 15 Screen	52	62

SHOW LOCATION IN SECTION PLAT

100' NL,  
100' WL,  
NW SE NW

16. Size Hole below casing:  in.

17. Static level 7 ft. below casing top which is  ft. above ground level. Pumping level 12 ft. when pumping at 5 gpm for 7 hours. Sub. pump set at 40'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
-------------------------------	-----------	-----------------

Sand & gravel 10 10

Sand 52 62

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed. Hestrich DATE Dec. 30

WINNEBAGO

COUNTY NO. 33415

5-46N-2E

# GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 5-3-76

10. Property owner W. Hestrich & Sons Well No.

Address 201 Winchester St. 13th St. E. 11.

Driller Ed. Hestrich License No. 92-582

11. Permit No. 46233 Date April 23, 1976

12. Water from 51' to 61' 13. County Winnebago

at depth 60 to 65 ft.

14. Screen: Diam. 6 in.

Length: 5 ft. Slot 20

Sec. 5  
Twp. 46 N  
Rge. 2 E  
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	13K DC 19 1/2	0	60
6"	55. screen (Screen)	60	65

SHOW LOCATION IN SECTION PLAT

50' NL 100' EL  
NW NE NW

16. Size Hole below casing:  in.

17. Static level 8 ft. below casing top which is 1 ft. above ground level. Pumping level 20 ft. when pumping at 60 gpm for 4 hours. Sub. pump set at 40'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
-------------------------------	-----------	-----------------

Sand & Gravel 55 55

Sand 10 65

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed. Hestrich DATE May 15

WINNEBAGO

COUNTY NO. 33980

5-46N-2E

## Well No.

Year

75

Depth of Bottom	70 fms
-----------------	--------

0	0
---	---

68	100
----	-----

COL. 1914.

Received from Winnebago County Department  
of Public Health. January 28, 1965.

[Continue on back if necessary]

Finished in 1 hr 45 min at 100 to 100 ft.

Cased with \_\_\_\_\_ inch \_\_\_\_\_ from 0 to 20 ft.

and \_\_\_\_\_ inch \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ ft.

Size hole below casing \_\_\_\_\_ inch. Static level from surf \_\_\_\_\_ ft.

Tested capacity 12 gal. per min. Temperature 72 °F

Water lowered to 45 ft. in 2 hrs. 0 min.

Length of test 2 hrs. 1 min. Screen 1

Slot   —   Diam.   —   Length   —   Bottom set at   —   ft.

Township name Locust Elev. \_\_\_\_\_

Sec 52

Description of location	^	^	Twp.
<del>1001</del> 2001			460

SOUTH BEHOLD THE

		X	

Sec. 6  
Twp. 46N  
Rge. 21

Signed Mrs. M. J. K. K. K. County Wash.  
 WITNESSES

Index: 5-46N-2E

OWN South Beloit TOWNSHIP

COMPANY C. W. Varner

NO.

FARM Wisconsin Power &amp; Light #3

AUTHORITY C. W. Varner

ELEVATION 735 T.M.

T. 46

MAP NO. 1  
R 2E

SEC. 5

COLLECTOR

DATE DRILLED 1937

CONFIDENTIAL

40' W. of Rushing St., 30' N. of Clark St.

COUNTY No. 31 STRATA

	THICKNESS		DEPTH	
	FEET	IN.	FEET	IN.
Black loam	3		3	
Gravel, coarse	11		14	
Gravel, fine	56		70	
Gravel, coarser	52		122	
Gravel, shows limestone and red shale	8		130	
Rock and shale	5		135	
Brown shale and gravel	3		138	
Gravel	12		150	
Gravel, some coarser	13		163	
Gray and brown sandrock	9		172	
Sand, brown	23		195	
Gray sand, some coarser	9		204	
Gravel, coarse	12		216	
Sand, gray	4		220	
Shale, brown, sandy	6		226	
Sandstone, gray	2		228	
Sandstone, gray	4		232	
Lime, reddish-gray	6		238	
Lime, blue, hard	40		278	
Lime, gray	17		295	
Shale, red	55		350	
Sandrock, gray	10		360	
Lime, gray, very hard	5		365	
Sand, light gray	17		382	
Lime, red, very hard	2		384	
Sand, white	4		388	
Lime, red	6		394	
White sandrock	18		412	
Sand	8		420	
Sandstone, gray	32		452	

SHEET 2  
COMPANY C. W. Varner  
FARM Wisconsin Power & Light NO. #3  
T. 46N R. 2E S. 5

NO.	STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
	Sandstone, dark brown, hard	11		463	
	Sandstone, gray	7		470	
	Shale, blue, sandy, hard	14		484	
	Sandstone, gray	48		532	
	Green copper oxide, shale	5		537	
	Red rock, dolomitic, sandy, hard	38		580	
	Shale, gray, hard	6		586	
	Sandstone, brown	4		590	
	Limerock, gray, sandy, hard	9		599	
	Sandstone, soft, gray	6		605	
	Sandstone, blue, hard, sharp	37		642	
	Sandstone, white, soft	4		646	
	Sandrock, dark brown, very hard	2		648	
	Lime, blue, sandy, very hard	2		650	
	Sandrock, white, soft	3		653	
	Lime, brown, very hard	4		657	
	Sand, white, soft	4		661	
	Lime, blue, hard	8		669	
	Sand, white, soft	5		674	
	Brown, lime, hard	3		677	
	Lime, brown	10		687	
	Lime, brown, soft	4		691	
	Sand, white	5		696	
	Lime, brown, hard	8		704	
	Sand, white, soft	56		760	
	Lime, hard, gray	4		764	
	Sand, white, fine	14		778	
	Lime, hard and gray	2		780	
	Sand, white	50		830	
	Lime, broken	3		835	
	Lime, blue	2		835	
	Sand, white, fine	30		865	
	Lime, broken, sandy	20		885	

SHEET

3

T. 46N

R. 2E

S. 5

3

COMPANY C. W. Verner  
FARM Wisconsin Power & Light Hole No. #3

STRATA	THICKNESS		DEPTH	
	FEET	IN.	FEET	IN.
Lime, blue, sandy	40		925	
Lime, gray, sandy	18		943	
Lime, blue, sandy	5		948	
Shale, brown	3		951	
Lime, gray, hard	4		955	
Dolomite, blue, hard	8		963	
Dolomite, gray, very hard	4		967	
Lime, gray	7		974	
Lime, blue	4		978	
Sand, gray	14		992	
Shale, blue, hard	1		993	
Sand, fine, firm	5		998	
Shale, red, firm	2		1000	
Sand, fine, firm	7		1007	
Lime, red, not very hard	3		1010	
Lime, red, hard	10		1020	
Sand, gray	11		1031	
Sand, fine, red, hard	13		1044	
Sand, gray, fine, hard	31		1075	
Dolomite, gray, hard, fine	7		1082	
Lime, brown, sandy	5		1087	
Red sand, soft to hard, fine	78		1165	
Sand, light red, fine	20		1185	

Diameter: 17" to 352'

Casing: 12 3/4" to bottom at 1185'  
250' 5" of 18" O.D. pipe  
from surface.REQUESTED AND MAIL ORIGINAL TO STATE  
BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST  
101. DO NOT DETACH GEOLOGICAL/WATER  
E PROPER WELL LOCATION.

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7/22/75

10. Property owner Barlene Remington No. 11Address 245 Center St. S. Beloit, WI  
Driller Ed Greenfield License No. 92-58211. Permit No. 59006 Date July 112. Water from Sandstone 13. County Winnebago  
at depth 40 to 75 ft. Sec. 614. Screen: Diam. 4 1/2 in. Twp. 46N  
Length: 28 ft. Slot 28 Rge. 28 Elev. 28

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Blk. PE. 14 1/2	0	40

SHOW  
LOCATION IN  
SECTION PLAT  
300' N. 100' E. L.  
N 1/2 NE NE  
(permit)16. Size Hole below casing: 6 in.17. Static level 12 ft. below casing top which is 1 ft.  
above ground level. Pumping level 15 ft. when pumping at 10  
gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & gravel	20	20
Limestone	15	35
Sandstone	40	75

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Aug 1

WINNEBAGO

COUNTY No. 3632

6-16N-2E

INDEX NO. 0105

COUNTY Winnebago

DRILL RECORD

(60360-15M-8-30)

ILLINOIS GEOLOGICAL SURVEY, URBANA

5-46N-2E



SHEET 2  
 COMPANY C. W. Varner  
 FARM C.M. St.P. & P. R.R.  
 T. 46N R. 2E S. 6  
 HOLE NO. HOLE NO.

NO.	STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.

From 375' to 400'-10' level  
 At completion of job-4' level.

Diameter and Casings:

14 1/2" of 12" pipe  
 12" hole to 241'  
 8" hole to 400'  
 241' of 8" pipe from surface, cemented.

OWN Rockton Township Roscoe  
 COMPANY C. W. Varner No.  
 FARM C.M. St.P. & P. R.R. No. T. 46  
 Elevation 740 top. map N  
 Date Drilled June 1940  
 Confidential 800' S. line, 800' E. line  
 Collector  
 Map No. 1 R. 2E  
 Sec. 6

Strata	Thickness		Depth	
	Feet	In.	Feet	In.
Sand and gravel	25		25	
Sandstone, hard	5		30	
Sandstone, softer than above	10		40	
Sandstone	178		218	
Limestone, grayish-white	4		222	
Limestone, and red rock	13		235	
Limestone, red rock and some sand	6		241	
Red rock, some sand	10		251	
Brown limestone	29		280	
Limestone, dark gray	10		290	
Brown and green shale	55		345	
Brown and green shale, some gray lime	10		355	
Brownish-gray limestone	13		368	
Sandstone	19		387	
Hard limestone	3		390	
Sandstone and hard lime	5		395	
Sandstone, very light lime-stone	5		400	

# Static Water Levels:

From top to 14'-Dry level

" 14' " 40'-12' level  
 " 40' " 65'-9'  
 " 65' " 150'-10'  
 " 150' " 241'-8'  
 " 241' " 272'-12'  
 " 272' " 325'-11'  
 " 325' " 375'-14'

COUNTY Winnebago INDEX NO. 0106  
 DRILL RECORD  
 A33187--20M ILLINOIS GEOLOGICAL SURVEY, URBANA 6-46N-2E  
 (10-10)

COUNTY Winnebago INDEX NO. 0106  
 DRILL RECORD  
 A6373--20M--10-39 ILLINOIS GEOLOGICAL SURVEY, URBANA 6-46N-2E

# GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-6-74

0. Property owner Orlund Cruise Well No. 5181015

Address 533 5th St. N. License No. 92-552

Driller Ed Greenfield Date Dec. 23

1. Permit No. 51078 13. County Winnebago

2. Water from Sand Formation

at depth 55 to 70 ft. Sec. 6

4. Screen: Diam. 4 in. Twp. 46 N

Length: 2 ft. Slot 15 Rge. 7E

Elev.


## 5. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW LOCATION IN SECTION PLAT
4	3/4" PE 11# ft.	0	68	100' SL, 100' EL, SE SE NW
4	Robinson Screen	68	70	(permit)

6. Size Hole below casing:  in.

7. Static level 32 ft. below casing top which is 1 ft. above ground level. Pumping level 53 ft. when pumping at 10 gpm for 2 hours. Sub. pump

8. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & gravel	30	30
Sand	10	70

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Dec. 30

COUNTY NO. 834116

WINNEBAGO

6-46N-2E

# GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 9-1

10. Property owner M.M. Dressler Well No. 5181015

Address 611 5th St. N. License No. 92-582

Driller Ed Greenfield Date Aug. 25

11. Permit No. 51164 13. County Winnebago

12. Water from Sand Formation

at depth 58 to 70 ft. Sec. 6

14. Screen: Diam. 4 in. Twp. 46 N

Length: 2 ft. Slot 20 Rge. 2E

Elev.


## 15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW LOCATION IN SECTION PLAT
4	3/4" PE 11# ft.	0	68	100' NL 100' EL
4	Robinson Screen	68	70	SE NE SW

16. Size Hole below casing:  in.

17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 52 ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 65 ft.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand	1	1
Sand & gravel	30	31
Sand	39	70

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Oct. 6-76

COUNTY NO. 84392

WINNEBAGO

6-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD.

Completed 2-26-77

Property owner Arthur Fisher Well No. 151617  
Address 559 So 81st St  
Driller Ed Frenschfeld License No. 92-582  
Permit No. 52213 Date Oct 19  
Water from Sand 13. County Winnebago  
at depth 24 to 23 ft. Sec. 6  
Screen: Diam. 4 in. Twp. 46N  
Length: 2 ft. Slot 20 Rge. 2E  
Elev.         


Casing and Liner Pipe

Lim. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	81k. PE. 11#	0	71
4	55. screen	71	73

SHOW LOCATION IN SECTION PLAT

100' NL, 100' EL, NE  
NE SW

Size Hole below casing:          in. (Permit)

Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 52 ft. when pumping at 12 gpm for 1 hours. Sub. pump set at 60'.

FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & gravel	25	25
Sand	48	73

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Frenschfeld DATE 2-27-77

COUNTY NO. 24435

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-2-76

10. Property owner George Kozak Well No. 601-7648  
Address 1708 Lamey Ct. So. Beloit  
Driller Olson Well Co. License No. 102-93  
Permit No. 48963 Date 6/25/76  
12. Water from sandstone 13. County Winnebago  
at depth 75 to 110 ft. Sec. 6  
Screen: Diam.          in. Twp. 46N  
Length:          ft. Slot          Rge. 2E  
Elev.         


15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	15 steel	0	42

SHOW LOCATION IN SECTION PLAT  
300' SL 800' EL  
SE (permit)

16. Size Hole below casing: 5 in.

17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 15 gpm for 1 hours. Sub. pump set at 80'.

FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
topsoil	3	3
sand & big gravel	6	9
Limestone	19	28
dome lite	47	75
sandstone	35	110

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert Olson DATE 7/28/76

COUNTY NO. 24071

LOG OF WATER WELL

Property owner Robert Atkins Well No. 1

Drilled by Blayne Well Co. Year 1965

Formations passed through

Thick-  
ness

Depth of  
Bottom

Sand & gravel 35 75  
sand 33 68

COUNTY NO. 1997

[Continue on back if necessary]

Finished in sand at 66 to 67 ft.

Used with 4 inch API 54 from 0 to 66 ft.

and 4 inch API from 66 to 68 ft.

Size hole below casing 10 inch. Static level from surf. 45 ft.

Tested capacity 10 gal. per min. Temperature 58 °F.

Water lowered to 48 ft. in 1 hrs. min.

Length of test 3 hrs. min. Screen 1/2 in.

Plot 20 Diam 4 Length 2 Bottom set at 68 ft.

Ownership name NE 1/4 Section 7 Elev. 6

Description of location NE 1/4 NE 1/4

Sec 7 T46N R2E


Sec. 7  
Twp. 46N  
Rge. 2E

Minneapolis County Minnesota  
WINNEBAGO  
Copy for Illinois State Geological Survey  
Index: 7-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 1-17-72

1. Property owner Amwood Builders Well No. 1

Address 205 State St. Deloit

Driller Blayne Well Co. License No. 92-345

2. Permit No. NE 12539 Date Oct. 12-71

3. Water from sand Formation 13 County Lincoln

4. Screen: Diam. 5 in. Sec. 7  
Length: 2 ft. Slot 15 Rge. 2E  
Elev. 68 to 70 ft. Twp. 46N


Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
<u>5</u>	<u>API 54</u>	<u>1462</u>	<u>68</u>
<u>5</u>	<u>Johnson screen</u>	<u>68</u>	<u>70</u>

SHOW LOCATION IN SECTION PLAT  
100' N, 100' E,  
SE SW NE  
(permit)

16. Size Hole below casing: 10 in.

17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 47 ft. when pumping at 10 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>sand</u>	<u>20</u>	<u>70</u>
<u>sand &amp; gravel</u>	<u>30</u>	<u>50</u>
<u>sand</u>	<u>20</u>	<u>70</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Blayne Well Co. DATE Feb. 7-72

WINNEBAGO  
7-46N-2E

## LOG OF WATER WELL

Property owner Harold Bates Well No. 1429Drilled by Walter Gwert Year 1965

Formations passed through

Thick-  
nessDepth of  
BottomSand & Gravel40 40Sand35 25Sandy clay75 95Fine sand28 105Sand stone28 133COUNTY NO. 1998

WINNEBAGO

[Continue on back if necessary]

Finished in Black stone at 112 to 133 ft.Cased with 4 inch Black Pipe 54 1/2 from 0 to 112 ft.and    inch    from    to    ft.Size hole below casing 4 inch. Static level from surf 55 ft.Tested capacity 20 gal. per min. Temperature 56 °F.Water lowered to 59 ft. in 1 hrs. 30 min.Length of test 2 hrs.    min. Screen   Slot    Diam.    Length    Bottom set at    ft.

(Show location in Section Plat)

Township name Rackton Elev.    Sec. 7Description of location N.E. 1/4 of Sec. 7S. 10 1/4 City    Rge. W2E


Twp. 46NRge. W2ESigned Walter Gwert County Winnebago Index: 7-46N-2EQUESTED AND MAIL ORIGINAL TO STATE DE-  
16. STATE OFFICE BUILDING, SPRINGFIELD.  
CAL/WATER SURVEYS SECTION. BE SURE TO

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Alvin Brugg Completed 7-12-72  
Well No. 1Address 1705 Levee St. License No. 82-582Driller Ed Kermelid Date July 11-7211. Permit No. 18765 13. County Winnebago12. Water from limestone & sandstone at depth 71 to 115 ft.14. Screen: Diam.    in. Sec. 7Length:    ft. Slot    in. Twp. 46NElev.    Rge. 2E

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>8 1/4 Std. 19 1/2 H.</u>	<u>0</u>	<u>41</u>

SHOW  
LOCATION IN  
SECTION PLAT  
100' SL, 100'  
ET, SE SE NW  
(perft t)


16. Size Hole below casing: 6 in.17. Static level 50 ft. below casing top which is 1 ft.  
above ground level. Pumping level 55 ft. when pumping at 12  
gpm for 8 hours.

18. FORMATIONS PASSED THROUGH

THICKNESS

DEPTH OF  
BOTTOMSand & gravel1212limestone7385sandstone30115

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Kermelid DATE Aug. 4-72COUNTY NO. 2397

WINNEBAGO

7-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD  
Completed 2-28/

10. Property owner Dan Brusch Well No. 50 860.7

Address 310 Kedzie License No. 92-582

Driller Ed Berentfield Date Feb 6

11. Permit No. 27522 13. County Winnebago

12. Water from limestone Formation at depth 41 to 100 ft.

14. Screen: Diam. 4 in. Sec. 7  
Length: 25 ft. Slot 1/16 Rge. 2E


Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	SHOW LOCATION IN SECTION PLAT
6	B/K. P.E. 19# ft	0	41	100'SL, 100'WL of NE NE SW (Permit)

16. Size Hole below casing: 6 in.

17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
sand & gravel	18	18
limestone	52	70
sandstone	30	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Brusch DATE March 13

COUNTY No. 33009

WINNEBAGO

7-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD  
Completed 11/3/75

10. Property owner Ed Nutzke Well No. Roscoe, IL

Address 18051 Bowman Hwy License No. 92-582

Driller Ed Berentfield Date Sept 12

11. Permit No. 41148 13. County Winnebago

12. Water from sand Formation at depth 70 to 72 ft.

14. Screen: Diam. 4 in. Sec. 7  
Length: 2 ft. Slot 1/2 Rge. 2E


Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	SHOW LOCATION IN SECTION PLAT
4	B/K. P.E. 11#	0	70	100'SL 100'EL SE SE NE (permit)
4	Johanson SS screen	70	72	

16. Size Hole below casing: 1 in.

17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 10 gpm for 3 hours. Sub. pump set at 60'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
sand & gravel	20	20
sand	52	72

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Nutzke DATE Nov. 20-75

COUNTY No. 33839

WINNEBAGO

7-46N-2E



GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 9-27-74

10. Property owner Steve Namminga Well No. 1  
Address 831 Blackhawk St. Beloit, Ill.  
Driller Ed Greenfield License No. 92-582  
11. Permit No. 33369 Date Sept. 25  
12. Water from sand Formation Winnebago  
13. County Winnebago  
at depth 66 to 68 ft. Sec. 7  
14. Screen: Diam. 4 in. Twp. 46N  
Length: 2 ft. Slot 15 Rge. 2E  
Elev. \_\_\_\_\_


Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	SHOW LOCATION IN SECTION PLAT
4	Blk. PE. 11# ft.	0	66	50' SL, 50' WL of NE NE SW (Permit)
4	Johnson S.S. screen	66	68	

15. Casing and Liner Pipe  
16. Size Hole below casing: \_\_\_\_\_ in.  
17. Static level 48 ft. below casing top which is \_\_\_\_\_ ft. above ground level. Pumping level 51 ft. when pumping at \_\_\_\_\_ gpm for \_\_\_\_\_ hours. Submersible, set at 50'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand	68	68

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Oct. 7-74

COUNTY No. 23378

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7/18/75

10. Property owner George Leonard Well No. 1  
Address 442 Whittemore St. Beloit  
Driller Ed Greenfield License No. 92-582  
11. Permit No. 39223 Date July 10  
12. Water from sand Formation Winnebago  
13. County Winnebago  
at depth 63 to 65 ft. Sec. 7  
14. Screen: Diam. 4 in. Twp. 46N  
Length: 2 ft. Slot 15 Rge. 2E  
Elev. \_\_\_\_\_


Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	SHOW LOCATION IN SECTION PLAT
4	Blk. PE. 11# ft.	0	63	50' SL, 50' EL NE SE SW (Permit)
4	S.S. screen	63	65	

15. Casing and Liner Pipe  
16. Size Hole below casing: \_\_\_\_\_ in.  
17. Static level 52 ft. below casing top which is \_\_\_\_\_ ft. above ground level. Pumping level 50 ft. when pumping at \_\_\_\_\_ gpm for \_\_\_\_\_ hours. Sub. pump set at 55'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand + gravel	6	6
Sand	59	65

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Aug 1

COUNTY No. 23633

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 2-11-77

0. Property owner Nick Rallo Well No. 586017

Address #31 Smith St. S. Beloit

Driller Ed Greenfield License No. 92-582

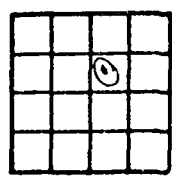
1. Permit No. 52958 Date Oct 1

2. Water from limestone 13. County Winnebago

at depth 40 to 120 ft.

4. Screen: Diam. 2 1/2 in. Twp. 46N

Length: 2 1/2 ft. Slot 2 1/2 Rge. 2E



5. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	8 1/2 P.E. 19#	0	40

SHOW LOCATION IN SECTION PLAT  
200'SL, 100'EL  
NW (Permit)

6. Size Hole below casing: 6 in.

7. Static level 50 ft. below casing top which is 1 ft.

above ground level. Pumping level 50 ft. when pumping at 12 gpm for 2 hours. Sub. pump set at 65'.

8. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & gravel	15	15
limestone	85	80
Sandstone	40	120

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE 2-27-77

COUNTY NO. 24427

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 1-8-77

10. Property owner Mike Rallo Well No. 586017

Address 1702 Lawrence St. S. Beloit, Ill

Driller Ed Greenfield License No. 92-582

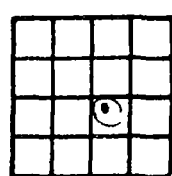
11. Permit No. 52958 Date Oct 1 1976

12. Water from Sandstone 13. County Winnebago

at depth 42 to 120 ft.

14. Screen: Diam. 2 1/2 in. Twp. 46N

Length: 2 1/2 ft. Slot 2 1/2 Rge. 2E



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	8 1/2 P.E. 19#	0	42

SHOW LOCATION IN SECTION PLAT  
200'SL, 100'WL,  
NE (Permit)

16. Size Hole below casing: 6 in.

17. Static level 35 ft. below casing top which is 1 ft.

above ground level. Pumping level 37 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & gravel	12	12
limestone	68	80
Sandstone	40	120

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE 2-27-77

COUNTY NO. 24426

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-16-71

10. Property owner Chuck Bechtel Well No.

Address 1915 N. 4th St. S. Minneapolis

Driller F. J. Schaefer License No. 9900-307

11. Permit No. NE 12377 Date 11-18-71

12. Water from Formation 13. County Winnebago

at depth 7 ft. Sec. 7

14. Screen: Diam. 6 in. Twp. 41N

Length: 4 ft. Slot 20 Rge. 2E

15. Casing and Liner Pipe Elev.

16. Size Hole below casing:  in.

17. Static level 42 ft. below casing top which is 1 ft. above ground level. Pumping level 52 ft. when pumping at 15 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
-------------------------------	-----------	-----------------

Black silt 4

Green clay 1

Well sand clay 25

Gravelly silt 31

70

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED T. M. Noble DATE Feb. 2-72

LOG OF WATER WELL

Property owner Wayne Schaefer Well No. 1245

Drilled by EVERETT Bros. Year 64

Formations passed through

TOP SOIL 1 1

FILL 7 8

Sand & gravel 20 28

Sand 14 42

COUNTY NO. 1999

Received from Winnebago County Department of Public Health.

Finished in 9-6-66 at 47 to 48 ft.

Cased with 4 inch Standard Black Pipe from 0 to 40 ft.

and  inch from  to  ft.

Size hole below casing  inch. Static level from surf. 20 ft.

Tested capacity 10 gal. per min. Temperature 56 °F.

Water lowered to 22 ft. in 2 hrs. 30 min.

Length of test 5 hrs. min. Screen Johnson

Slot 20 Diam. 3 3/4 Length 2 Bottom set at 42 ft.

Township name ROCKTON Elev.

Description of location SE 1/4 Sec 7 N. 44

of Sec 7


Signed Walter G. Over County Winnebago

# LOG OF WATER WELL

Property owner Tom Singelberg Well No. 1

illed by Blyea Well Co. Year 1969

Formations passed through

Thick-  
ness

Depth of  
Bottom

and gravel 40 40

and 10 50

COUNTY NO. 22008...

received from Winnebago County Department  
of Public Health

ished in Sand at 50 to 50 ft.

sed with 4 inch BLK. 5/8" Pipe from 0 to 48 ft.

and 4 inch Screen from 48 to 50 ft.

ze hole below casing 10 inch. Static level from surf. 30 ft.

sted capacity 35 gal. per min. Temperature 50 °F.

ster lowered to 35 ft. in 1 hrs. min.

ngth of test 1 hrs. min. Screen Johnson

at 20 Diam 4 " Length 2 ' Bottom set at 50 ft.

wnship name Roscoe Elev. 7 Sec. 7

scription of location NW 1/4 Sec 4

22.7 T46N R2E


Sec. 7 Twp. 46N Rge. 2E

ried Ed. Hensfield County Winnebago

ry for Illinois State Water Survey WINNEBAGO: 7-46N-2E

REQUESTED AND MAIL ORIGINAL TO STATE  
AU OF ENVIRONMENTAL HEALTH, 535 WEST  
101. DO NOT DETACH GEOLOGICAL/WATER  
E PROPER WELL LOCATION.

# GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-10-73

10. Property owner Chetler Well Well No. 1

Address 50 Detroit St. License No. 22-582

Driller Ed Hensfield Date Nov. 14

11. Permit No. 23583 County Winnebago

12. Water from 11m 2 + 5m 4 ft. 3 at depth 42 to 100 ft.

14. Screen: Diam. 4 1/2 in. Length: 10 ft. Slot 25 Elev. 25

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)	LOCATION IN SECTION PLAT
<u>6</u>	<u>BLK. 5 1/2 19#</u>	<u>0</u>	<u>42</u>	<u>100' SL, 100' WL</u>
				<u>of NE SW NE</u>
				<u>(Permit)</u>

16. Size Hole below casing: 6 in.

17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 2 gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>clay</u>	<u>6</u>	<u>6</u>
<u>limestone</u>	<u>54</u>	<u>60</u>
<u>sandstone</u>	<u>40</u>	<u>100</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Hensfield DATE Nov. 14

COUNTY NO. 22008...

WINNEBAGO

7-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD  
Completed 12-1

10. Property owner Genel Woods Well No. 307 Redgale

Address 507 Redgale License No. 23-542

Driller Ed Everett Date Oct. 1

11. Permit No. 53989 12. Water from limestone 13. County Wagoner

at depth 41 to 100 ft. Sec. 2

14. Screen: Diam. 4 in. Twp. 46 N

Length: 1 ft. Slot 3/8 Rge. 3 E

Elev. 1001

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	3/4" 19	0	41

SHOW LOCATION IN SECTION PLAT  
100' SL 100' EL  
NW (permit)

16. Size Hole below casing: 6 in.

17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 12 gpm for 1 hours. Sub. pump set at 60'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Sandstone</u>	<u>18</u>	<u>13</u>
<u>limestone</u>	<u>67</u>	<u>85</u>
<u>Sandstone</u>	<u>30</u>	<u>105</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Everett DATE Dec. 8

WINNEBAGO COUNTY NO. 24273

# REFERENCE NUMBER 11

STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY

## TELEPHONE CONVERSATION RECORD

Winnebago  
COUNTY

LPC

DIVISION

201045022

South Beloit

/ General Hydraulics

I. D. or FILE NO.

Re: find out about Beloit/S. Beloit wells

(608) 365-7711

Conversation with: Dave Cummings of Wisconsin Power and Light

(X) I Called Party ( ) Party Called Me DATE 6/28/90 TIME 1:20pm

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

### What I Said:

Introduced my self

Is the South Beloit well that 1185'  
deep still in use?

How many wells does Beloit have?

How many do they serve?

What is your title?

### What Other Party Said:

Yes, it supplies 4088  
residence and is connected  
w/ Beloit's system

7, - 3 sand and gravel and  
4 shallow bedrock

40,000 residents

Measurement and Regulation  
Supervisor

use reverse side if necessary

EPS

Title

Tim Murphy  
Signature